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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/607,518	06/26/2003	Wolfgang Spirkl	MUH-12674	6033
	7590 02/20/200 E NBERG STEMER LI	EXAMINER		
FOR INFINEON TECHNOLOGIES AG			TRIMMINGS, JOHN P	
	P.O. BOX 2480 HOLLYWOOD, FL 33022-2480		ART UNIT	PAPER NUMBER
			2117	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/607,518	SPIRKL ET AL.				
Office Action Summary	Examiner	Art Unit				
	JOHN P. TRIMMINGS	2117				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
Responsive to communication(s) filed on 26 Ju This action is FINAL . 2b)⊠ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro					
Disposition of Claims						
4) ☐ Claim(s) 1-14 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-14 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on 26 June 2003 is/are: a) Applicant may not request that any objection to the or	vn from consideration. r election requirement. r. ⊠ accepted or b)□ objected to					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 6/26/2003.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte				

DETAILED ACTION

Claims 1-14 are presented for examination.

Priority

1. The examiner acknowledges the applicant's claim of priority based on a foreign application.

Information Disclosure Statement

2. The examiner has considered the applicant's IDS dated 6/26/2003.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tanazaki et al. (herein Tanazaki), US Patent No. 6762967 in view of Kang, US Patent No. 5299168.

As per claim 1:

Tanazaki teaches a method for checking the refresh function of a memory having a refresh device (see Abstract for example or Summary), which comprises: supplying a control unit (FIG. 1 101, 108, 109, 111) of the memory (FIG. 1 100) with refresh test

pulses (FIG. 1 output of 101) produced outside the memory (FIG. 14 CLK) instead of supplying the control unit with the refresh request pulses (FIG. 14 300); and checking the refresh device of the memory utilizing the refresh test pulses (column 3 lines 50-59), but fails to further disclose determining if refresh request pulses are being produced on the memory and at what intervals of time the refresh request pulses are being produced on the memory. But in the analogous art of Kang, these features are taught where the complete cycle of addresses based on refresh pulses is verified as well as the "cycle time" of the refresh cycle (column 5 lines 58-64). And in column 2 lines 13-30, the advantage stated from Kang is a means of verifying the "cycle time" in a self-refresh memory as well as verifying that all refresh addresses were generated. One with ordinary skill in the art at the time of the invention, motivated as suggested, would have found it obvious to include the unique features of Kang (verifying cycle time and addressing) in the self-refresh test system of Tanazaki in order to provide an enhanced refresh diagnostic system for memories.

As per claim 2:

Kang further teaches the method according to claim 1, which further comprises controlling the checking of the refresh device with the control unit (column 5 lines 58-64). And in view of the motivation previously stated, the claim is rejected.

As per claim 3:

Tanazaki further teaches the method according to claim 1, which further comprises supplying the refresh test pulses and the refresh request pulses to a

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multiplex device (FIG. 14, select circuit 40). And in view of the motivation previously stated, the claim is rejected.

As per claim 4:

Tanazaki further teaches the method according to claim 2, which further comprises supplying the refresh test pulses and the refresh request pulses to a multiplex device (FIG. 14, select circuit 40). And in view of the motivation previously stated, the claim is rejected.

As per claim 5:

Tanazaki further teaches the method according to claim 1, which further comprises supplying the refresh test pulses and the refresh request pulses to the control unit through a multiplex device (FIG. 14, select circuit 40). And in view of the motivation previously stated, the claim is rejected.

As per claim 6:

Tanazaki further teaches the method according to claim 2, which further comprises supplying the refresh test pulses and the refresh request pulses to the control unit through a multiplex device (FIG. 14, select circuit 40). And in view of the motivation previously stated, the claim is rejected.

As per claim, 7:

Tanazaki further teaches the method according to claim 1, which further comprises: connecting a multiplex device (FIG. 14 40) to the control unit (the combined 101, 108, 109, 111 units of FIG. 1); and supplying the refresh test pulses and the

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refresh request pulses to the control unit through the multiplex device (see column 7 lines 29-44). And in view of the motivation previously stated, the claim is rejected.

As per claim 8:

Tanazaki further teaches the method according to claim 2, which further comprises: connecting a multiplex device to the control unit; and supplying the refresh test pulses and the refresh request pulses to the control unit through the multiplex device. (FIG. 14, select circuit 40). And in view of the motivation previously stated, the claim is rejected.

As per claim 9:

Tanazaki further teaches the method according to claim 3, which further comprises controlling the multiplex device with a test signal (FIG. 14 SPECIFIC SIGNAL, as in column 7 lines 39-40). And in view of the motivation previously stated, the claim is rejected.

As per claim 10:

Tanazaki further teaches the method according to claim 4, which further comprises controlling the multiplex device with a test signal (FIG. 14 SPECIFIC SIGNAL, as in column 7 lines 39-40). And in view of the motivation previously stated, the claim is rejected.

As per claim 11:

Tanazaki further teaches the method according to claim 5, which further comprises controlling the multiplex device with a test signal (FIG. 14 SPECIFIC

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SIGNAL, as in column 7 lines 39-40). And in view of the motivation previously stated, the claim is rejected.

As per claim 12:

Tanazaki further teaches the method according to claim 6, which further comprises controlling the multiplex device with a test signal (FIG. 14 SPECIFIC SIGNAL, as in column 7 lines 39-40). And in view of the motivation previously stated, the claim is rejected.

As per claim 13:

Tanazaki further teaches the method according to claim 7, which further comprises controlling the multiplex device with a test signal (FIG. 14 SPECIFIC SIGNAL, as in column 7 lines 39-40). And in view of the motivation previously stated, the claim is rejected.

As per claim 14:

Tanazaki further teaches the method according to claim 8, which further comprises controlling the multiplex device with a test signal (FIG. 14 SPECIFIC SIGNAL, as in column 7 lines 39-40). And in view of the motivation previously stated, the claim is rejected.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JOHN P. TRIMMINGS whose telephone number is

(571)272-3830. The examiner can normally be reached on Monday through Thursday, 7:00 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jacques Louis-Jacques can be reached on (571) 272-6962. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/John P Trimmings/ Primary Examiner, Art Unit 2117

jpt